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ABSTRACT

A phacoemulsification system includes a phacoemulsification handpiece including a cutting tip ultrasonically vibrated by an ultrasonic transducer. A power supply is provided for driving the ultrasonic transducer at a resonant frequency of the transducer and cutting tip and varying power to the transducer, in response to loading of the cutting tip, by phase shifting drive signals to the resonant converter which supplies power to the transducer.